



1. Identification of the substance / mixture and of the company / undertaking

1.1 Identification of the substance or mixture

Trade name: Riboflavin (Vitamin B2)

Product code: GJP-AC-03

CAS No.:83-88-5

1.2 Company / undertaking identification

Company name: Across Biotech Jinan Co., Ltd.

Manufacturing Address: Shanda Rd 160, Lixia distric, Jinan, China

Telephone:+86-531-68652497

E-Mail:sales@acrossbiotech.com

1.3 Information in case of emergency

Telephone:+86-531-68652497

2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to regulation (EC) No 1272/2008, this substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC Directives or respective national laws.

2.3 Other hazards

None

3. Composition / information on ingredients

3.1 Substances

Synonyms: 7,8-Dimethyl-10-Ribitylisoalloxazine; Lactoflavin; Riboflavine; Vitamin B2;

Molecular Weight: 376.36

Chemical Formula: C₁₇H₂₀N₄O₆

4. First aid measures

4.1 Description of first aid measures

After inhalation:

if breathed in, move person into fresh air, if not breathing, give artificial respiration.

After skin contact:

wash off with soap and plenty of water.

After eye contact:

flush eyes with water as precaution.

After ingestion:

never give anything by mouth to an unconscious person, Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

No data available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides(NOx)

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for fire fighting of necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust inhaled. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel, keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precaution for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place, keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters.

8.2 Exposure controls

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment

Respiratory protection: For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).

Skin protection: Handle with gloves, Gloves must be inspected prior to use. Use proper glove removal technique (with out touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances,

and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and chemical properties

- Assay:
98.0%-----102.0% on dried basis (USP)
97.0%-----103.0% on dried basis (BP/EP)
 - Color: Yellow to Yellow Orange Crystalline Powder.
 - Odor: no data available
 - Solubility: Soluble in water and practically;
 - Melting Point: With Decomposition at about 290° C ~ 291 °C
 - Flash point: no data available
 - Lower explosion limit: no data available
 - Upper explosion limit: no data available
 - Ignition temperature: no data available
 - Boiling point: no data available
 - Self ignition: no data available
 - Heavy Metals(Pb): 10ppm Max
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10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

strong oxidizing agents, reducing agents, bases, calcium, metallic salts

10.6 Hazardous decomposition products

no data available

11. Toxicological information

11.1 Acute toxicity

LD50 Oral-rat->10,000mg/kg

11.2 Primary irritant effect

Skin irritation (rabbit): no data available

Eye irritation (rabbit): no data available

Respiratory/skin: no data available

sensitization:no data available

Further information:not available

12. Ecological information

12.1 Ecological effects

No available available

12.2 Persistence and degradability

No available available

12.3 Additional ecological information

No available available

13. Disposal consideration

13.1 waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging

Dispose of as unused product

14. Transport information

14.1 UN number

ADR/RID:

IMDG:-

IATA:-

14.2 UN proper shipping name:

ADR/RID: not dangerous goods

IMDG: not dangerous goods

IATA: not dangerous goods

14.3 Transport Hazard class(es)

ADR/RID:

IMDG:-

IATA:-

14.4 Packaging Group

ADR/RID:

IMDG:-

IATA:-

14.5 Environmental Hazards

ADR/RID: no

IMDG Marine pollutant

IATA: no

14.6 Special precautions for user

No data available

15. Regulatory information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

16. Other information**Further information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.